

## CLAIMS

1. A computer system comprising:
  - a portable computer having a LPC bus for peripheral devices;
  - a docking station to receive the portable computer and peripheral devices;
  - a PCI\_Express fabric coupling the portable computer and the docking station, the PCI\_Express fabric communicating commands or data between the LPC bus and the peripheral devices.
2. The computer system of Claim 1 further comprising a hybrid PCI\_Express downstream port coupled to the LPC bus and to a computer host for receiving PCI\_Express packets and LPC commands or data for transmission along a PCI\_Express fabric.
3. The computer system of Claim 2 further comprising a hybrid PCI\_Express upstream port couplable to a peripheral device and receiving PCI\_Express packets and LPC Transaction Packets from the PCI\_Express fabric.
4. The computer system of Claim 2 wherein the hybrid PCI\_Express downstream port receives a half-duplex LPC bus Transaction Packet and converts it to two full duplex PCI\_Express packets for transmission on the PCI\_Express fabric.
5. The computer system of Claim 4 further comprising a LPC packet manager which places a long wait sync clock signal on the LPC bus while awaiting a reply to a bi-directional LPC transaction data packet.
6. In a computer docking station to receive a portable computer and peripheral devices, a communications link between the portable computer and the peripheral devices comprising:
  - a PCI\_Express fabric couplable to the portable computer and at least one of the peripheral devices, the PCI\_Express fabric communicating commands or data between a computer in the docking station and a peripheral device connected thereto.

7. The computer docking station of Claim 6 further comprising a hybrid PCI\_Express downstream port couplable to a LPC bus of a computer and to a computer host for receiving PCI\_Express packets and LPC Transaction Packets for transmission along a PCI\_Express fabric.
8. The computer docking station of Claim 7 further comprising a hybrid PCI\_Express upstream port couplable to a peripheral device and receiving LPC Transaction Packets from the PCI\_Express fabric.
9. The computer docking station of Claim 7 wherein the hybrid PCI\_Express downstream port receives a half-duplex LPC bus Transaction packet and converts it to two full duplex PCI\_Express packets for transmission on the PCI\_Express fabric.
10. The computer docking station of Claim 9 further comprising a LPC packet manager which places a long wait sync clock signal on the LPC bus while awaiting a reply to a bi-directional LPC transaction data packet.
11. A modified PCI\_Express fabric comprising:
  - a hybrid PCI\_Express downstream port couplable to a computer LPC bus and to a computer host for receiving PCI\_Express packets and LPC data or commands for transmission along a PCI\_Express fabric; and
  - a hybrid PCI\_Express upstream port couplable to a computer peripheral device and receiving PCI\_Express packets and packetized LPC data or commands from a PCI\_Express fabric and separating out the LPC data or commands for use by the computer peripheral device.
12. The PCI\_Express fabric of Claim 11 further comprising a PCI\_Express fabric coupled between the hybrid PCI\_Express downstream port and the hybrid PCI\_Express upstream port.

13. The PCI\_Express fabric of Claim 11 wherein the hybrid PCI\_Express downstream port receives a half-duplex LPC bus Transaction Packet and converts it to two full duplex PCI\_Express packets for transmission on the PCI\_Express fabric.
14. The PCI\_Express fabric of Claim 13 further comprising a LPC packet manager which places a long wait sync clock signal on the LPC bus while awaiting a reply to a bi-directional LPC transaction data packet.
15. A method of coupling a LPC bus Transaction Packet across a boundary between a portable computer and a docking station utilizing a PCI\_Express fabric comprising:
  - controlling the data flow on the PCI\_Express fabric to insert at a first location on the PCI\_Express fabric PCI\_Express packets corresponding to LPC Transaction Packet into unused portions of the PCI\_Express traffic,
  - receiving PCI\_Express packets at a second location on the PCI\_Express fabric and extracting those packets corresponding to the LPC Transaction Packets;
  - performing an LPC task.
16. The method of Claim 15 further comprising converting half-duplex LPC bus Transaction Packets into two full duplex PCI\_Express packets for transmission on the PCI\_Express fabric.
17. In a method of coupling an LPC bus across a boundary between a portable computer and a docking station, a method of sending serial IRQ or DMA requests from a peripheral device to a processor, comprising:
  - generating in an LPC slave coupled to the peripheral device a PCI\_Express upstream packet requesting a serial IRQ request or DMA request;
  - injecting the PCI\_Express upstream packet into the PCI\_Express fabric;
  - recovering the PCI\_Express upstream packet in the docking station;
  - utilizing the recovered PCI\_Express upstream packet to generate sideband signals to an LPC controller.

18. The method of Claim 17 further comprising:  
generating a serial IRQ or DMA request in the LPC controller.